



AC 500V



Max 50A



-40℃~85℃



UL94-V0



IP 68

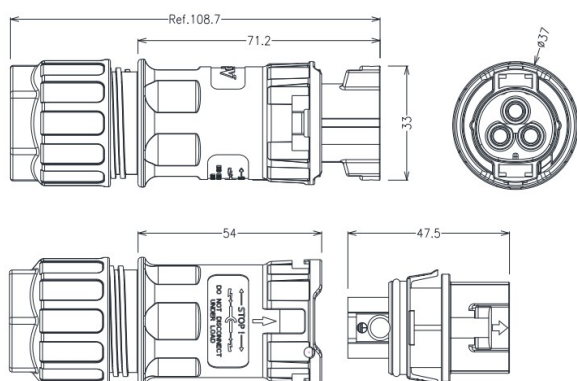


UV Resistance

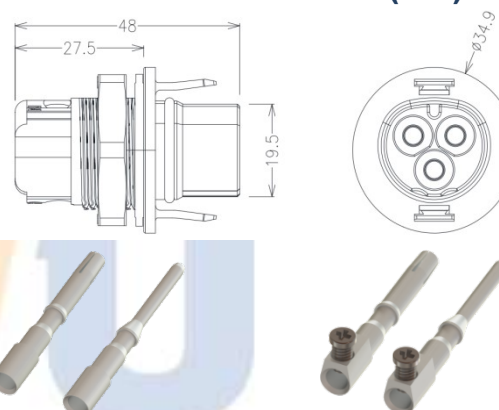
## Product Overview:

A5-3P(50A) series are widely used in string inverters. The products use high quality weather resistance materials that guarantee long-term reliability. The connectors could use 2.5 mm<sup>2</sup> to 6mm<sup>2</sup> cables. The lower contact resistance and higher current transfer capability ensure high product efficiency. IP68 water-proof rating and wide operating temperature range from -40 °C to 85 °C.

### Cable Connector:A5-3PC(F/M)



### Panel Connector:A5-3PP(F/M)



Crimping Terminals

Screw Terminals

## Technical Data:

Rated Voltage	AC 500V
Terminals	3pin:PE+2P
Certified & Qualified	TUV
Rated Current	25A for 3*2.5mm <sup>2</sup> cables 40A for 3*4.0mm <sup>2</sup> cables 50A for 3*6.0mm <sup>2</sup> cables
Ambient Temp	-40℃ up to + 85℃
Contact Resistance	≤1mΩ
Waterproof IP	IP68
Voltage Test	4000V
Protection Degree	Class II
Fire Resistance	UL94-V0
Material	PPO/ Copper Alloy/PA

**Remark:**The harness could match 3\*2.5mm<sup>2</sup> to 3\*6mm<sup>2</sup> cables, they could be widely used in different applications. The harness series connectors have IP68 water-proof rating and can be used in a wide operating temperature range from -40 °C to 85 °C. Customized options available, for more information, please contact NIU Power sales team: Marketing@niu-power.com



## Order Data:

Part NO	Connector Type	Conduct Terminals		Cable OD Range	Package
A53101	A5-3PCF Female Connector for cable	Crimping terminals for 3*2.5mm <sup>2</sup> ~ 3*6.0mm <sup>2</sup> cable		11±1mm	10pcs/bag
A53102				13±1mm	10pcs/bag
A53103				15±1mm	10pcs/bag
A53104		Screw terminals for 3*2.5mm <sup>2</sup> ~ 3*6.0mm <sup>2</sup> cable		11±1mm	10pcs/bag
A53105				13±1mm	10pcs/bag
A53106				15±1mm	10pcs/bag
A53111	A5-3PCM Male Connector for cable	Crimping terminals for 3*2.5mm <sup>2</sup> ~ 3*6.0mm <sup>2</sup> cable		11±1mm	10pcs/bag
A53112				13±1mm	10pcs/bag
A53113				15±1mm	10pcs/bag
A53114		Screw terminals for 3*2.5mm <sup>2</sup> ~ 3*6.0mm <sup>2</sup> cable		11±1mm	10pcs/bag
A53115				13±1mm	10pcs/bag
A53116				15±1mm	10pcs/bag
A53121	A5-3PPF Female Connector for Panel	Crimping terminals for 3*2.5mm <sup>2</sup> ~ 3*6.0mm <sup>2</sup> cable		-	10pcs/bag
A53122				-	10pcs/bag
A53123				-	10pcs/bag
A53124		Screw terminals for 3*2.5mm <sup>2</sup> ~ 3*6.0mm <sup>2</sup> cable		-	10pcs/bag
A53125				-	10pcs/bag
A53126				-	10pcs/bag
A53131	A5-3PPM Male Connector for Panel	Crimping terminals for 3*2.5mm <sup>2</sup> ~ 3*6.0mm <sup>2</sup> cable		-	10pcs/bag
A53132				-	10pcs/bag
A53133				-	10pcs/bag
A53134		Screw terminals for 3*2.5mm <sup>2</sup> ~ 3*6.0mm <sup>2</sup> cable		-	10pcs/bag
A53135				-	10pcs/bag
A53136				-	10pcs/bag
Part NO	Name	IP	Material	PIC	Package
A53401	Female Connector water proof Plug	IP68	PPO+Rubber		10pcs/bag
A53402	Male Connector water proof Plug	IP68	PPO		10pcs/bag
A53403	Female Connector dust proof Plug	IP51	TPE		10pcs/bag
A53404	Male Connector dust proof Plug	IP51	TPE		10pcs/bag

**Remark:**The harness could match 3\*2.5mm<sup>2</sup> to 3\*6mm<sup>2</sup> cables, they could be widely used in different applications. The harness series connectors have IP68 water-proof rating and can be used in a wide operating temperature range from -40 °C to 85 °C. Customized options available, for more information, please contact NIU Power sales team: Marketing@niu-power.com

